

APPENDIX

VERSION WITH MARKINGS TO SHOW CHANGES MADE

IN THE CLAIMS:

The claims are amended as follows:

1. (Amended) A vehicle AC generator comprising:

a case;

a shaft journaled in the case;

a rotor secured to the shaft so as to be disposed in the case;

a stator supported by the case so as to be disposed to cover the external periphery of the rotor;

ventilating means rotated together with the rotor; and

a rectifier unit cooled by the ventilating means, the rectifier unit comprising:

cooling plates for the positive-electrode and negative-electrode sides disposed at a predetermined interval and each having principal planes opposing each other; and

a diode package disposed between the cooling plates for the positive-electrode and negative-electrode sides, the diode package comprising:

a unidirectionally conducting element for the positive-electrode side;

a unidirectionally conducting element for the negative-electrode side having a cathode face joined to an anode face of the unidirectionally conducting element for the positive-electrode side by interposing an AC input terminal therebetween;

a base for the positive-electrode side formed of a metallic plate and joined to a cathode face of the unidirectionally conducting element for the positive-electrode side;

a base for the negative-electrode side formed of a metallic plate and joined to an anode face of the unidirectionally conducting element for the negative-electrode side; and

an insulating resin provided so that the unidirectionally conducting elements for the positive-electrode and negative-electrode sides are embedded therein, at least end faces of the respective bases for the positive-electrode and negative-electrode sides are exposed therefrom on both sides in the depositing direction of the unidirectionally conducting elements for the positive-electrode and negative-electrode sides, and the top end of the AC input terminal extends therefrom,

wherein in the diode package, the end face of the base for the positive-electrode side is joined to a side, of the cooling plate for the positive electrode side, that is substantially parallel to the principal plane of the cooling plate for the positive-electrode side while the end face of the base for the negative-electrode side is joined to a side, of the cooling plate for the negative electrode side, that is substantially parallel to the principal plane of the cooling plate for the negative-electrode side.